BRIEF SUMMARY

[0007a] According to an aspect, there is provided an integration framework for facilitating communication with a central authority that manages an industry network, the integration framework comprising:

a plurality of sensors and industry network components configured to generate operational data and event data within the industry network;

an operational bus in communication with the plurality of sensors and industry network components, the operational bus configured to receive the operational data and to communicate the operational data to the central authority, the operational data comprising a real-time measurement for at least one sensor or industry network component; and

an event bus in communication with the plurality of sensors and industry network components, the event bus configured to receive the event data and to communicate the event data to the central authority, the event bus being separate from the operational bus, the event data being distinct from and derived from the real-time measurement and comprising at least one analytical determination based on the at least one real time measurement,

wherein the operational data is communicated via the operational bus and not communicated via the event bus, and

wherein the event data is communicated via the event bus and not communicated via the operational bus.

[0008] According to embodiments, Aan intelligent network for improving the management of an industry system is provided. The intelligent network may be customizable and applied to the one or more industries. Examples include applications to the utility industry and vehicle travel industry (such as air travel network, rail travel network, automobile travel network, bus travel network, etc.). The intelligent network may also be customized and applied to a telecommunication network and to energy exploration.

[0009] An intelligent network may include one or more system endpoints. The system endpoints may include one or more endpoint sensors to monitor various conditions of an industry system and generate data indicative of the conditions. The system endpoints may include endpoint analytics to process system endpoint data and generate any appropriate decisions based on the data.

[0010] The intelligent network may include a system infrastructure including one or more infrastructure sensors to monitor various conditions of the industry system infrastructure and generate data indicative of the conditions. The system infrastructure may include infrastructure analytics to process the data and generate any appropriate decisions based on the data. The system infrastructure may also receive data from the system endpoints to generate appropriate decisions.

[0011] The system endpoints and system infrastructure may generate event data indicative of an occurrence of interest within the industry system. The system endpoints and system infrastructure may also generate operational and non-operational data indicative of the industry system. The intelligent network may include one or more buses to provide event data and operational/non-operational data to a network core of the intelligent network. The network core may include system analytics to analyze received data and generate decisions that may be localized or global within the industry system. The network core may also include a data collection used to store received data in order to retrieve for subsequent review and analysis. The network core may also include system controls used control various aspects of the system industry. The system controls may be implemented when various decisions have been made and may require system manipulation. The intelligent network may also include an enterprise system in communication with the network core.

[0012] Other systems, methods, features and advantages will be, or will become, apparent to one with skill in the art upon examination of the following figures and